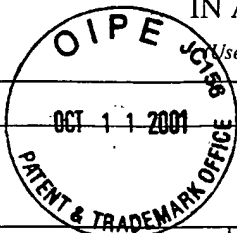


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Sheet 1 of 12


Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket Number 220002056723	Application Number 22550,240
	Applicant H. Kirk HAMMOND ET AL.	
	Filing Date: December 26, 2000	Group Art Unit 1614
	Mailing Date: October 5, 2001	



U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
mmj	1.	11/23/1993	5,264,618	Felgner, et al.	1	11	
	2.	02/01/1994	5,283,185	Epand, et al.	1	11	
	3.	08/02/1994	5,334,521	Ishikawa	1	11	
	4.	08/02/1994	5,334,761	Gebeyehu et al.	1	11	
	5.	10/17/1995	5,459,127	Felgner, et al.	1	11	
	6.	11/26/1996	5,578,481	Ishikawa	1	11	
	7.	08/11/1998	5,792,453	Hammond et al.	1	11	
mmj	8.	03/07/2000	6,034,071	Iyengar	1	11	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation	
							YES	NO
mmj 	9.	03/03/1993	0 529 662	EP				
	10.	05/16/1991	WO 91/06309	PCT				
	11.	11/14/1991	WO 91/17424	PCT				
	12.	05/29/1992	WO 92/08796	PCT				
	13.	03/18/1993	WO 93/05061	PCT				
	14.	10/14/1993	WO 93/19768	PCT				
	15.	12/23/1993	WO 93/25673	PCT				
	16.	05/26/1994	WO 94/11506	PCT				
	17.	11/24/1994	WO 94/26914	PCT				
	18.	12/08/1994	WO 94/28143	PCT				
	19.	01/05/1995	WO 95/00655	PCT				
	20.	01/26/1995	WO 95/02697	PCT				
	21.	01/26/1995	WO 95/02698	PCT				
	22.	05/18/1995	WO 95/13365	PCT				
	23.	05/18/1995	WO 95/13392	PCT				
	24.	06/22/1995	WO 95/16772	PCT				

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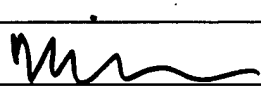
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Applicant H. Kirk HAMMOND ET AL.					
		Filing Date: December 26, 2000		Group Art Unit 1600/2900			
		Mailing Date: October 5, 2001					
FOREIGN PATENT DOCUMENTS							
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uwp	25.	06/29/1995	WO 95/17373	PCT			
	26.	09/08/1995	WO 95/23867	PCT			
	27.	09/21/1995	WO 95/25071	PCT			
	28.	10/26/1995	WO 95/28494	PCT			
	29.	12/21/1995	WO 95/34647	PCT			
	30.	01/04/1996	WO 96/00295	PCT			
	31.	01/25/1996	WO 96/01840	PCT			
	32.	03/21/1996	WO 96/08260	PCT			
	33.	06/13/1996	WO 96/17947	PCT			
	34.	09/06/1996	WO 96/26742	PCT			
	35.	04/03/1997	WO 97/12050	PCT			
	36.	05/09/1997	WO 97/16169	PCT			
	37.	05/09/1997	WO 97/16170	PCT			
	38.	05/22/1997	WO 97/17937	PCT			Abstract
	39.	01/14/1999	WO 99/01546	PCT			
	40.	01/14/1999	WO 99/01547	PCT			
	41.	08/19/1999	WO 99/40945	PCT			
	OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)						
	Examiner Initials	Ref. No.	Title				
	uwp	42.	Abbas, A. et al. (1991). <u>Cellular and Molecular Immunology</u> . W.B. Saunders Co., pp. ix-xi (Table of Contents).				
43.		Abbas, A. et al. (1994). <u>Cellular and Molecular Immunology 2nd Ed.</u> W.B. Saunders Co., pp. xi-xiii (Table of Contents).					
uwp	44.	Adams, R.L.P. (1990). "Cell Culture for Biochemists", <u>In Laboratory Techniques in Biochemistry and Molecular Biology</u> . Burdon, R.H. and van Knippenberg, P.H., eds., Elsevier Science Publishers, pp. xi-xvii (Table of Contents).					
	45.	Alousi, A.A. et al. (1991). "Stoichiometry of Receptor-Gs-Adenylate Cyclase Interactions" <u>FASEB J.</u> 5(9):2300-2304.					
EXAMINER: <u>uwp</u>		DATE CONSIDERED: <u>2.24.03</u>					
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OTHER DOCUMENTS <small>(including author, title, date, Pertinent Paper, Etc.)</small>			
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mw	46.	Ausubel, F. et al. (eds.), (1987). <u>Current Protocols in Molecular Biology</u> , Wiley: New York, pp. xvii-xxii (Table of Contents).	
	47.	Avidor-Reiss, T. et al. (1997). "Opiate-Induced Adenylyl Cyclase Superactivation is Isozyme-Specific" <i>J. Biol. Chem.</i> 272(8):5040-7.	
	48.	Baughman, K. (1995). "New Medical Therapies for Advanced Left Ventricular Dysfunction" <i>Cardiology Clinics</i> 13(1): 27-34.	
	49.	Benovic, J.L. (1991). "Purification and Characterization of Beta-Adrenergic Receptor Kinase." <i>Methods Enzymol.</i> 200: 351-362.	
	50.	Berns (1990). "Chapter 62, Parvoviridae and Their Replication" <i>In Fields Virology</i> , Fields, B. N. et al., eds., Raven Press: New York, pp. 1743-1763.	
	51.	Bers, D.M. (1979). "Isolation and Characterization of Cardiac Sarcolemma" <i>Biochim Biophys Acta.</i> 555: 131-146.	
	52.	Bloom, W. & Fawcett, D. (1975). <u>A Textbook of Histology</u> , 10th Ed., W.B. Saunders Co.: Philadelphia, pp. vii-xv (Table of Contents).	
	53.	Bohm, M. (1995). "Alterations of Beta-Adrenoceptor-G-Protein-Regulated Adenylyl Cyclase in Heart Failure." <i>Mol Cell Biochem.</i> 147(1-2):147-60.	
	54.	Bond, R.A. et al. (1995). "Physiological Effects of Inverse Agonists in Transgenic Mice with Myocardial Overexpression of the Beta 2-Adrenoceptor" <i>Nature</i> 374(6519): 272-276.	
	55.	Bothwell, A. et al. eds., (1990). <u>Methods for Cloning and Analysis of Eukaryotic Genes</u> . Bartlett Publ., pp. iii-x (Table of Contents).	
	56.	Bradford, M.M. (1976). "A Rapid and Sensitive Method for the Quantitation of Microgram Quantities of Protein Utilizing the Principle of Protein-Dye Binding" <i>Anal Biochem</i> 72: 248-254.	
	57.	Braunwald, E. ed. (1988). "Chapter 16: Clinical Manifestations of Heart Failure" <i>In: Heart Disease, a Text book of Cardiovascular Medicine</i> , W.B. Saunders, Philadelphia pp. 426, 471-484.	
	58.	Brigham, K.L. et al. (1993). "Cationic Liposomes and DNA Delivery" <i>J. Liposome Res.</i> 3:31-49.	
	59.	Bristow, M.R. et al. (1989). " β_1 and β_2 -Adrenergic Receptor-Mediated Adenylate Cyclase Stimulation in Nonfailing and Failing Human Ventricular Myocardium" <i>Mol. Pharm.</i> 35(3):295-303.	
mw	60.	Bristow, M.R. et al. (1993). "Reduced β_1 Receptor Messenger RNA Abundance in the Failing Human Heart" <i>J. Clin. Invest.</i> 92(6):2737-2745.	
EXAMINER: mw		DATE CONSIDERED: 2.27.03	
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mm	61.	Bristow, M.R. et al. (1982). "Decreased Catecholamine Sensitivity and Beta-Adrenergic Receptor Density in Failing Human Hearts" <i>N Engl J Med</i> 307(4): 205-211.	
	62.	Bristow, M.R. et al. (1986). "Beta 1- and Beta 2-Adrenergic-Receptor Subpopulations in Nonfailing and Failing Human Ventricular Myocardium: Coupling of Both Receptor Subtypes to Muscle Contraction and Selective Beta 1-Receptor Down-Regulation in Heart Failure" <i>Circ Res</i> 59(3): 297-309.	
	63.	Brown, T. ed. (1991). <u>Essential Molecular Biology</u> . IRL Press, Table of Contents, ix-xv.	
	64.	Bullock, G. and Petrusz, P. (eds.), (1982). <u>Techniques in Immunocytochemistry Vol. 1</u> Academic Press, pp. xi-xii (Table of Contents).	
	65.	Bullock, G. and Petrusz, P. (eds.), (1983). <u>Techniques in Immunocytochemistry Vol. 2</u> Academic Press, pp. ix-x (Table of Contents).	
	66.	Bullock, G. and Petrusz, P. (eds.), (1985). <u>Techniques in Immunocytochemistry Vol. 3</u> Academic Press, pp. v-vi (Table of Contents).	
	67.	Bullock, G. and Petrusz, P. (eds.), (1989). <u>Techniques in Immunocytochemistry Vol. 4</u> Academic Press, pp. v-vi (Table of Contents).	
	68.	Burns, J.C. et al. (1993). "Vesicular Stomatitis Virus G Glycoprotein Pseudotyped Retroviral Vectors: Concentration to Very High Titer and Efficient Gene transfer Into Mammalian and Nonmammalian Cells" <i>Proc. Natl. Acad. Sci. (USA)</i> 90(17): 8033-8037.	
	69.	Butler, M. ed. (1991). <u>Mammalian Cell Biotechnology, A Practical Approach</u> . IRL Press: Oxford, pp. ix-xiv (Table of Contents).	
	70.	Calderone, A. et al. (1991). "Dysfunction of the Beta- and Alpha-Adrenergic Systems in a Model of Congestive Heart Failure" <i>Circ Res</i> 69(2): 332-343.	
	71.	Carter, B.J. et al. (1990). "Chapter 11, AAV DNA Replication, Integration, and Genetics," <i>In Handbook of Parvoviruses, Vol. 1.</i> , Tijssen, P. ed., CRC Press: Boca Raton FL, pp. 169-228.	
	72.	Carter, B.J. (1992). "Adeno-Associated Virus Vectors" <i>Curr. Opin. Biotechnol.</i> 3(5): 533-539.	
	73.	Chatterjee, S. et al. (1995). "Strategies for Efficient Gene Transfer into Hematopoietic Cells. The Use of Adeno-Associated Virus Vectors in Gene Therapy" <i>Ann. NY. Acad. Sci.</i> 770: 79-90.	
	74.	Chen, Z. et al. (1995). "Expression of Type V Adenylyl Cyclase is Required for Epidermal Growth Factor-Mediated Stimulation of cAMP Accumulation" <i>J Biol Chem</i> 270(46): 27525-27530.	
mm	75.	Chomczynski, P. et al. (1987). "Single-Step Method of RNA Isolation by Acid Guanidinium Thiocyanate-Phenol-Chloroform Extraction" <i>Anal Biochem</i> 162(1): 156-159.	
EXAMINER: <i>mm</i>		DATE CONSIDERED: 2.24.03	
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OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)			
Examiner Initials	Ref. No.	Title	
WJ	76.	Chonn, A. et al. (1995). "Recent Advances in Liposomal Drug-Delivery Systems" <i>Curr Opin Biotech</i> 6(6): 698-708.	
	77.	Coligan, J. et al. eds., (1991). <i>Current Protocols in Immunology</i> Vol. 1, Wiley, pp. 1-9 (Table of Contents).	
	78.	Crystal, R.G. (1995). "Transfer of Genes to Humans: Early Lessons and Obstacles to Success" <i>Science</i> 270(5235):404-410.	
	79.	Curiel, D.T. et al. (1991). "Adenovirus Enhancement of Transferrin-Polylysine-Mediated Gene Delivery" <i>PNAS</i> 88(19): 8850-8854.	
	80.	Curiel, D.T. et al. (1992). "High-Efficiency Gene Transfer Mediated by Adenovirus Complexed to DNA-Polylysine Complexes" <i>Human Gene Therapy</i> 3(2): 147-154.	
	81.	Dai, Y. et al. (1995). "Cellular and Humoral Immune Responses to Adenoviral Vectors Containing Factor IX Gene: Tolerization of Factor IX and Vector Antigens Allows for Long Term Expression" <i>Proc. Nat'l Acad Sci. (USA)</i> . 92(5): 1401-1405.	
	82.	Darfler, F.J. et al. (1982). "Stimulation by Forskolin of Intact S49 Lymphoma Cells Involves the Nucleotide Regulatory Protein of Adenylate Cyclase" <i>J. Biol. Chem.</i> 257(20): 11901-11907.	
	83.	Deonarain M.P. (1998). "Ligand-targeted receptor-mediated vectors for gene delivery. Expert Opinions on Therapeutic Patents" <i>Expert Opin. Ther. Pat.</i> , 8:53-69.	
	84.	Du et al. (1996). "Efficient transduction of human neurons with an adeno-associated virus vector" <i>Gene Ther</i> 3(3): 254-261.	
	85.	Eschenhagen, T. et al. (1992). "Changes in Gene Expression in Terminal Myocardial Failure" <i>Z Kardio</i> , 81(Suppl 4): 33-40.	
	86.	Feldman, A.M. et al. (1988). "Increase of the 40,000-mol wt Pertussis Toxin Substrate (G Protein) in the Failing Human Heart" <i>J Clin Invest</i> 82: 189-197.	
	87.	Flotte, T.R. et al. (1995). "Adeno-Associated Virus Vectors for Gene Therapy" <i>Gene Therapy</i> 2:357-362.	
	88.	Flotte, T.R. et al. (1992). "Gene Expression from Adeno-Associated Virus Vectors in Airway Epithelial Cells" <i>Am J Respir Cell Mol Biol</i> 7(3): 349-356.	
WJ	89.	Freedman, N.J. et al. (1995). "Phosphorylation and Desensitization of the Human Beta 1-Adrenergic Receptor. Involvement of G Protein-Coupled Receptor Kinases and cAMP-Dependent Protein Kinase" <i>J Biol Chem</i> 270(30): 17953-17961.	
WJ	90.	French, B.A. (1993). "Gene Transfer and Cardiovascular Disorders" <i>Herz</i> 18(4): 222-229.	
EXAMINER:		DATE CONSIDERED: 2.24.03	
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OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)			
Examiner Initials	Ref. No.	Title	
hu	91.	Freshney, R. ed. (1987). <u>Animal Cell Culture</u> . IRL Press: Oxford, pp. vii-xii (Table of Contents).	
	92.	Freshney, R. ed. (1987). <u>Culture of Animal Cells, 2nd Ed., A Manual of Basic Technique</u> , Alan R. Liss, Inc: New York, pp. vii-xiv (Table of Contents).	
	93.	Friele, T. et al. (1987). "Cloning of the cDNA for the Human β_1 -Adrenergic Receptor" <i>Proc. Natl. Acad. Sci. (USA)</i> . 84(22): 7920-7924.	
	94.	Higashi, M. et al. (1994). "Neuroendocrine Studies in Dementia Patients: Responses Plasma GH and PRL Following Bromocriptine Administration" <i>Acta Neurol Scand.</i> <i>Circulation</i> 90(No. 4 Pt 2):39-44.	
	95.	Gait, M. ed. (1984). <u>Oligonucleotide Synthesis: A Practical Approach</u> . IRL Press: Oxford, pp. vii-xii (Table of Contents).	
	96.	Gao, M. et al. (1998). "Increased Expression of Adenylylcyclase Type VI Proportionately Increases Beta-Adrenergic Receptor-Stimulated Production of cAMP in Neonatal Rat Cardiac Myocytes" <i>Proceedings of the National Academy of Sciences of USA, US, National Academy of Science</i> . 95:1038-1043.	
	97.	Gao et al. "Increased Adrenergic Signaling After Adenylylcyclase Type VI Gene Transfer in Rat Cardiac Myocytes" <i>Circulation</i> 6(8): I-294, XP-002056511.	
	98.	Gaudin, C. et al. (1995). "Overexpression of Gs Alpha Protein in the Hearts of Transgenic Mice" <i>J Clin Invest</i> 95(4): 1676-1683.	
	99.	Gennaro, A.R. ed. (1990). <u>Remington's Pharmaceutical Sciences, 18th Edition</u> , Mack Publishing Co., PA, pp. xv-xvi (Table of Contents).	
	100.	Giordano, F.J. et al. (1996). "Intracoronary Gene Transfer of Fibroblast Growth Factor-5 Increases Blood Flow and Contractile Function in an Ischemic Region of the Heart" <i>Nature Medicine</i> 2(5): 534-539.	
	101.	Goeddel ed., (1991). <u>Methods in Enzymology Vol. 185, Gene Expression Technology</u> , Academic Press: San Diego, pp. v-ix (Table of Contents).	
	102.	Gomez-Foix, A.M. et al. (1992). "Adenovirus-Mediated Transfer of the Muscle Glycogen Phosphorylase Gene into Hepatocytes Confers Altered Regulation of Glycogen Metabolism" <i>J Biol Chem</i> 267: 25129-25134.	
	103.	Graham, F. et al. (1991). <u>Methods in Molecular Biology, Vol. 7: Gene Transfer and Expression Protocols</u> , Murray, E. ed., Humana Press, Clifton, N.J. pp. 109-128.	
hu	104.	Hadcock, J.R. and Malbon CC. (1988). "Down-Regulation of Beta-Adrenergic Receptors: Agonist-Induced Reduction in Receptor mRNA Levels" <i>Proc Natl Acad Sci</i> 85(14): 5021-5025.	
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Form PTO-1449		Docket Number 220002056723	Application Number 09/758,240
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OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)			
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uw	105.	Hadcock, J.R. et al. (1989). "Agonist-Induced Destabilization of Beta-Adrenergic Receptor mRNA. Attenuation of Glucocorticoid-Induced up-Regulation of Beta-Adrenergic Receptors" <i>J Biol Chem</i> 264(33): 19928-19933.	
	106.	Hammond, H.K. et al. (1993). "Regional Myocardial Downregulation of the Inhibitory Guanosine Triphosphate-Binding Protein (G_{i2}) and β -Adrenergic Receptors in a Porcine Model of Chronic Episodic Myocardial Ischemia" <i>J. Clin. Invest.</i> 92(6):2644-2651.	
	107.	Hammond, H.K et al. (1992). "Myocardial Beta-Adrenergic Receptor Expression and Signal Transduction After Chronic Volume-Overload Hypertrophy and Circulatory Congestion" <i>Circulation</i> 85(1): 269-280.	
	108.	Hammond, H.K. et al. (1992). "Myocardial Adrenergic Denervation Supersensitivity Depends on a Postreceptor Mechanism not Linked with Increased cAMP Production" <i>Circulation</i> 85(2): 666-679.	
	109.	Hausdorff, W.P. et al. (1990). "Turning Off the Signal: Desensitization of Beta-Adrenergic Receptor Function" <i>FASEB J</i> 4(11): 2881-2889.	
	110.	Horwitz, M.S. (1990). "Adenoviridae and Their Replication" in <i>Virology</i> , Vol. 2. Fields, B. et al. eds., Raven Press New York, pp. 1679-1721.	
	111.	Inglese, J. et al. (1993). "Structure and Mechanism of the G Protein-Coupled Receptor Kinases" <i>J. Biol. Chem.</i> 268(32):23735-23738.	
	112.	Ishikawa, Y. et al. (1992). "Isolation and Characterization of a Novel Cardiac Adenylylcyclase cDNA," <i>J. Biol. Chem.</i> 267(19):13553-13557.	
	113.	Ishikawa, Y. et al. (1994). "Downregulation of Adenylylcyclase Types V and VI mRNA Levels in Pacing-Induced Heart Failure in Dogs" <i>J. Clin. Invest.</i> 93(5):2224-2229.	
	114.	Iyengar, R. (1993). "Molecular and Functional Diversity of Mammalian G_s -Stimulated Adenylyl Cyclases" <i>FASEB J.</i> 7(9):768-775.	
	115.	Katsushika, S. et al. (1992). "Cloning and Characterization of a Sixth Adenylyl Cyclase Isoform: Types V and VI Constitute a Subgroup Within the Mammalian Adenylyl Cyclase Family" <i>Proc. Natl. Acad. Sci. (USA)</i> 89(18):8774-8778.	
	116.	Kiuchi, K. et al. (1993). "Myocardial Beta-Adrenergic Receptor Function During the Development of Pacing-Induced Heart Failure" <i>J Clin Invest</i> 91(3): 907-914.	
	117.	Koch, W.J. et al. (1995). "Cardiac Function in Mice Overexpressing the β -Adrenergic Receptor Kinase or a β ARK Inhibitor" <i>Science</i> 268(5215):1350-1353.	
uw	118.	Kotin, R.M (1994). "Prospects for the Use of Adeno-Associated Virus as a Vector for Human Gene Therapy" <i>Human Gene Therapy</i> 5(7): 793-801.	
EXAMINER: <i>uw</i>		DATE CONSIDERED: 2.24.03	
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OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
<i>HW</i>	119.	Krupinski et al. (1992). "Molecular Diversity in the Adenylylcyclase Family: Evidence for Eight Forms of the Enzyme and Cloning of Type VI" <i>J. Biol. Chem.</i> 267(34): 24858-24862.
	120.	Krupinski, J. et al. (1992). "Molecular Diversity in the Adenylylcyclase Family. Evidence for Eight Forms of the Enzyme and Cloning of Type VI" <i>J Biol Chem</i> 267(34): 24858-24862.
	121.	Lai, H.L. et al. (1999). "The N Terminus Domain of Type VI Adenylyl Cyclase Mediates its Inhibition by Protein Kinase C" <i>Molecular Pharmacology</i> 56(3):644-650.
	122.	Ledley, F.D. (1995). "Nonviral Gene Therapy: the Promise of Genes as Pharmaceutical Products" <i>Human Gene Therapy</i> 6(9): 1129-1144.
	123.	Lee, K.J. et al. (1992). "Myosin Light Chain-2 Luciferase Transgenic Mice Reveal Distinct Regulatory Programs for Cardiac and Skeletal Muscle-Specific Expression of a Single Contractile Protein Gene" <i>J. Biol. Chem.</i> 267(22):15875-15885.
	124.	Liang, C.S. et al. (1989). "Decreased Adrenergic Neuronal Uptake Activity in Experimental Right Heart Failure. A Chamber-Specific Contributor to Beta-Adrenoceptor Downregulation" <i>J Clin Invest</i> 84(4): 1267-1275.
	125.	Mahan, L.C et al. (1985). "Genetic Analysis of Beta-Adrenergic Receptor Internalization and Down-Regulation" <i>Proc Natl Acad Sci USA</i> 82(1): 129-133.
	126.	Manolopoulos, V.G. et al. (1995). "Adenylyl Cyclase Isoforms are Differentially Expressed in Primary Cultures of Endothelial Cells and Whole Tissue Homogenates from Various Rat Tissues" <i>Biochem Biophys Res Commun</i> 208(1): 323-331.
	127.	Marzo, K.P. et al. (1991). "Beta-Adrenergic Receptor-G Protein-Adenylate Cyclase Complex in Experimental Canine Congestive Heart Failure Produced by Rapid Ventricular Pacing" <i>Circ Res</i> 69(6): 1546-1556.
	128.	Mazur, W. et al. (1994). "Coronary Restenosis and Gene Therapy" <i>Molecular and Cellular Pharmacology</i> 21(1): 104-111.
	129.	McGrory, W.J. et al. (1988). "Short Communications. A Simple Technique for the Rescue of Early Region I Mutations into Infectious Human Adenovirus Type 5" <i>Virology</i> 163(2):614-617.
	130.	McPherson, M. et al. (1991). <u>PCR: A Practical Approach</u> . IRL Press at Oxford University Press, pp. ix-xvi (Table of Contents).
	131.	Melamed, M. et al. eds., (1990). <u>Flow Cytometry and Sorting</u> . Wiley-Liss: New York, pp. v-vi (Table of Contents).
	132.	Microbix Product Information Sheet: <u>Plasmids for Adenovirus Vector Construction</u> (1996), Microbix Biosystems, Inc., Toronto, 9 pages.
<i>HW</i>	133.	Miller, N. et al. (1995). "Targeted Vectors for Gene Therapy" <i>FASEB J.</i> 9:190-199.

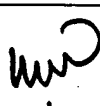


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		Filing Date: December 26, 2000	Group Art Unit 161	
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OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)				
Examiner Initials	Ref. No.	Title		
  	134.	Miller, J. & Calos, M. eds., (1987). "Gene Transfer Vectors for Mammalian Cells," <i>In Current Communications in Molecular Biology</i> , Cold Spring Harbor Laboratory, pp. vii-ix (Table of Contents).		
	135.	Murray, E. ed. (1991). <i>Methods in Molecular Biology, Vol. 7: Gene Transfer and Expression Protocols</i> , Humana Press, Clifton, NJ., pp. vii-ix (Table of Contents).		
	136.	Muzyczka, N. (1992). "Use of Adeno-Associated Virus as a General Transduction Vector for Mammalian Cells" <i>Current Topics in Microbiology and Immunology</i> . 158: 97-129.		
	137.	Nabel, E. (1995). "Gene Therapy for Cardiovascular Disease" <i>Circulation</i> 91(2):541-548.		
	138.	Neumann, J. et al. (1988). Increase in Myocardial G _i -Proteins in Heart Failure" <i>Lancet</i> 2(8617): 936-937.		
	139.	Ping, P. et al. (1995). "Over-Expression of Adenylylcyclase VI (AC _{VI}) Increases β -Adrenergic Receptor-Stimulated cAMP in Neonatal Rat Cardiac Myocytes" <i>Circulation</i> 92(8): 2726-2727.		
	140.	Ping, P. et al. (1995). "Reduced β -Adrenergic Receptor Activation Decreases G-Protein Expression and β -Adrenergic Receptor Kinase Activity in Porcine Heart" <i>J. Clin. Invest.</i> 95(3):1271-1280.		
	141.	Ping P. and Hammond HK. (1994). "Diverse G protein and beta-adrenergic receptor mRNA expression in normal and failing porcine hearts" <i>Am J Physiol</i> 267(5 Pt 2):H2079-H2085.		
	142.	Ping, P. et al. (1994). "Downregulation of Myocardial Adenylylcyclase mRNA is Isoform-Specific and Accompanies Late but not Early Heart Failure" <i>Circulation</i> 90(4):I-580, Abstract No. 3127.		
	143.	Pollard, J. and Walker, J. M., eds., (1990). <i>Methods in Molecular Biology Vol. 5, Animal Cell Culture</i> Humana Press: Clifton, NJ, pp.vii-x (Table of Contents).		
	144.	Post, S.R. (1995). "Quantification of Signalling Components and Amplification in the Beta-Adrenergic-Receptor-Adenylate Cyclase Pathway in Isolated Adult Rat Ventricular Myocytes" <i>Biochemical Journal</i> 311(Pt 1): 75-80		
	145.	Premont, R.T. et al. (1992). "Two Members of a Widely Expressed Subfamily of Hormone-Stimulated Adenylyl Cyclases" <i>Proc. Natl. Acad. Sci. U.S.A.</i> 89(20):9809-9813 .		
	146.	Roth, D.A. et al. (1992). "A Substantial Proportion of Cardiac Gs is Not Associated with the Plasma Membrane" <i>FEBS Lett</i> 296(1): 46-50.		
	147.	Roth, D.A. et al. (1993). "Downregulation of Cardiac Guanosine 5'-Triphosphate-Binding Proteins in Right Atrium and Left Ventricle in Pacing-Induced Congestive Heart Failure" <i>J. Clin. Invest.</i> 91(3):939-949.		
	EXAMINER:		DATE CONSIDERED: 2.24.03	
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Form PTO-1449		Docket Number 220002056723	Application Number 09/750,240
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Applicant H. Kirk HAMMOND ET AL.	
Filing Date: December 26, 2000		Group Art Unit 1614	
Mailing Date: October 5, 2001			
OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)			
Examiner Initials	Ref. No.	Title	
mw	148.	Roth, D.M et al. (1999). "Cardiac-Directed Adenylyl Cyclase Expression Improves Heart Function in Murine Cardiomyopathy" <i>Circulation</i> 99(24):3099-3102.	
	149.	Rutherford, R.B. (1989). <i>Vascular Surgery</i> , 3rd. Ed., W.B. Saunders Co.: Philadelphia, pp. xix-xxviii (Table of Contents).	
	150.	Sabiston, D.C. (1991). <i>The Textbook of Surgery</i> , 14th Ed. W.B. Saunders Co.: Philadelphia, pp. xxi-xxvii (Table of Contents).	
	151.	Sahn, D.J. et al. (1978). "Recommendations Regarding Quantitation in M-Mode Echocardiography: Results of a Survey of Echocardiographic Measurements" <i>Circulation</i> 58(6): 1072-1083.	
	152.	Salomon, Y. et al. (1974). "A Highly Sensitive Adenylate Cyclase Assay" <i>Anal. Biochem.</i> 58(2):541-548.	
	153.	Sambrook, J. et al. (1989). <i>Molecular Cloning: A Laboratory Manual</i> . Cold Spring Harbor Laboratory, Cold Spring Harbor: New York, pp. xi-xxxviii (Table of Contents).	
	154.	Schneider, M.D. and French, B.A. (1993). "The Advent of Adenovirus. Gene Therapy for Cardiovascular Disease" <i>Circulation</i> 88(4 Pt 1): 1937-1942.	
	155.	Schofield, J.P. et al. (1995). "Non-Viral Approaches to Gene Therapy" <i>British Med Bull</i> 51(1): 56-71.	
	156.	Schreier, H. (1994). "The new frontier: gene and oligonucleotide therapy" <i>Pharmaceutica Acta Helvetiae</i> 68(3):145-159.	
	157.	Solodin, I. et al. (1995). "A Novel Series of Amphiphilic Imidazolinium Compounds for in Vitro and in Vivo Gene Delivery" <i>Biochemistry</i> 34(41): 13537-13544.	
	158.	Spinale, F.G. et al. (1991). "Relation Between Ventricular and Myocyte Remodeling with the Development and Regression of Supraventricular Tachycardia-Induced Cardiomyopathy" <i>Circ. Res.</i> 69(4):1058-1067.	
	159.	Summers et al. (1985). "Signalling Pathways in Cardiac Failure" <i>Clin. Exper. Pharm. Phys.</i> 22(1): 874-876.	
	160.	Tang, W.J. et al. (1995). "Truncation and Alanine-Scanning Mutants of Type I Adenylyl Cyclase" <i>Biochemistry</i> 34(44):14563-14572.	
	161.	Tang, W.J. and Gilman, A.G. (1992). "Adenylyl cyclases" <i>Cell</i> 70(6): 869-872.	
	162.	Taussig, R. et al. (1994). "Distinct Patterns of Bidirectional Regulation of Mammalian Adenylyl Cyclases" <i>J Biol Chem</i> 269(8): 6093-6100.	
	EXAMINER: mw		DATE CONSIDERED: 2.24.03
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	Mailing Date: October 5, 2001	

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
mw	163.	Thomas, J.M. (1996). "Isoform-Specific Sensitization of Adenylyl Cyclase Activity by Prior Activation of Inhibitory Receptors: Role of Beta Gamma Subunits in Transducing Enhanced Activity of the Type VI Isoform" <i>Mol. Pharmacol.</i> 49(5):907-14.
	164.	Topol, E.J. ed. (1994). <i>The Textbook of Interventional Cardiology</i> , Vol. 2, 2nd Ed., W.B. Saunders Co.: Philadelphia, pp. xix-xxv (Table of Contents).
	165.	Ungerer, M. et al. (1993). "Altered Expression of β -Adrenergic Receptor Kinase and β_1 -Adrenergic Receptors in the Failing Human Heart" <i>Circulation</i> 87(2):454-463.
	166.	Ungerer, M. et al. (1994). "Expression of β -Arrestins and β -Adrenergic Receptor Kinases in the Failing Human Heart" <i>Circ Res</i> 74(2):206-213.
	167.	Urasawa, K. et al. (1992). In: <i>G Proteins: Signal Transduction and Disease</i> , Academic Press, London. 44-85.
	168.	Verma, I.M. (1997). "Gene Therapy -- Promises, Problems and Prospects" <i>Nature</i> 389(6648):239-242
	169.	Wallach, J. et al. (1994). "Molecular Cloning and Expression of a Novel Type V Adenylyl Cyclase from Rabbit Myocardium" <i>FEBS Lett</i> 338(3): 257-263.
	170.	Watson, P.A. et al. (1994). "Molecular Cloning and Characterization of the Type VI Isoform of Mammalian Adenylyl Cyclase Expressed Widely in Mouse Tissues and in S49 Mouse Lymphoma Cells" <i>J Biol Chem</i> 269(46): 28893-28898.
	171.	Weir, D. and Blackwell, C. (eds.), "Volume 1: Immunochemistry" In <i>Handbook of Experimental Immunology</i> , 4th ed., Blackwell Scientific Publications, Oxford, pp. v-x (Table of Contents).
	172.	Wicker, R. et al. (Updated 08/20/2001) "Adenylate Cyclase, Type VI (ATP Pyrophosphate-Lyase (CA(2+)-Inhibitable Adenylyl Cyclase)" <i>Database Swall Online! NCBI Accession No.: 043306; extra Accession No.: Q9NR75 (created July 15, 1999), 3 pages.</i>
	173.	Williams, R.S. (1993). "Southwestern Internal Medicine Conference: Prospects for Gene Therapy of Ischemic Heart Disease" <i>American Journal of Medical Sciences</i> . 306(2): 129-136.
	174.	Wu, R. et al. (eds.), <i>Recombinant DNA Methodology</i> . Academic Press: San Diego, pp. v-viii (Table of Contents).
	175.	Wyngaarden, J.B. et al. (eds.), (1992). <i>The Cecil Textbook of Medicine</i> , 19th Ed., W.B. Saunders: Philadelphia, pp. xxxi-xxxvi
mw	176.	Yamamoto, J. et al. (1994). "Beta-Adrenoceptor-G Protein-Adenylate Cyclase Complex in Rat Hearts with Ischemic Heart Failure Produced by Coronary Artery Ligation" <i>J Mol Cell</i> 26(5): 617-626.

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		Mailing Date: October 5, 2001	
OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)			
Examiner Initials	Ref. No.	Title	
mw	177.	Yoshimura, M. et al. (1992). "Cloning and Expression of a Ca ²⁺ -Inhibitable Adenylyl Cyclase from NCB-20 Cells" <i>Proc. Natl. Acad. Sci.(USA)</i> 89(15): 6716-6720. ✓	
↓	178.	Yu, H.J. et al. (1995). "Determination and Cellular Localization of Adenylyl Cyclase Isozymes Expressed in Embryonic Chick Heart" <i>FEBS Lett</i> 374(1): 89-94.	
mw	179.	Zhang, W.W. et al. (1993). "Generation and Identification of Recombinant Adenovirus by Liposome-Mediated Transfection and PCR Analysis" <i>Biotechniques</i> 15: 868-872.	
EXAMINER: <u>mw</u>		DATE CONSIDERED: <u>2.24.03</u>	
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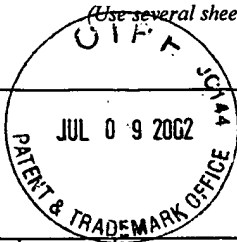
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uu	1.	08/22/2000	6,107,076	Tang et al.	—	—	
uu	2.	10/23/2001	6,306,830	Hammond et al.	—	—	

FOREIGN PATENT DOCUMENTS

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Examiner Initials	Ref. No.	Title
uu	3.	Database EBI 'OnLine! EMBL; Accession Number AF250226.1' (July 12, 2000). "Homo sapiens adenylyl cyclase type VI mRNA complete CDS", 2 pages.
uu	4.	Database EBI 'OnLine! EMBL; Accession Number M94968.1 (October 13, 1992). "Canis familiaris adenylyl cyclase type VI mRNA sequence", 2 pages.
uu	5.	Espinasse, I. et al. (1999). "Decreased type VI adenylyl cyclase mRNA concentration and Mg ²⁺ - dependent adenylyl cyclase activities and unchanged type V adenylyl cyclase mRNA concentration and Mn ²⁺ - dependent adenylyl cyclase activities in the left ventricle of rats with myocardial infarction and longstanding heart failure" <i>Cardiovascular Research</i> 42:87-98.
uu	6.	Haber, N. et al. (1994). "Chromosomal mapping of human adenylyl cyclase genes type III, type V and type VI" <i>Hum. Genet.</i> 94:69-73.
uu	7.	Raimundo, S. et al. (1999). "Cloning and sequence of partial cDNAs encoding the human type V and VI adenylyl cyclases and subsequent RNA-quantification in various tissues" <i>Clinica Chimica Acta</i> 285:155-161.
uu	8.	Wicker, R. et al. (2000). "Cloning and expression of human adenylyl cyclase type VI in normal thyroid tissues" <i>Biochimica et Biophysica Acta</i> 1493:279-283.
uu	9.	Kay, M. A. et al. (March 1994). "In vivo hepatic gene therapy: complete albeit transient correction of factor IX deficiency in hemophilia B dogs" <i>Proc. Natl. Acad. Sci. USA, Genetics</i> , 91:2353-2357.

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